

ship. Oct 3

Work Order ID 150037

150037

Monday, August 22, 2016 2:19:01 PM

Item ID: 646.9502 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: 206A / B / L Cable Cutter System, Low
Start Date: 9/6/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 9/13/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: dem Date: 11/08/22 Tooling: Date: Run Start *NR1*
QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.9500	N/C								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.9502								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.01							
Quality Control									

DAS
21
9-89

SEP 07 2016

DAS
28
9-89

SEP 07 2016

①

DAS
27
9-89

SEP 07 2016

DAS
28
9-89

SEP 07 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

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SEP 07 2016

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Compare Location/Lot Quantities

Monday, August 22, 2016 2:44:04 PM

On Hand Qty	Acct Val Amt	Extended Value	Sum Loc Qtys	Loc Ext. Value	Delta Loc Value	Sum Lot Qtys	Lot Ext. Value	Delta Lot Value
Item ID: CE01303F2B			Item Name: PB100F PUREair Dry Barrier Filter - AS350 Single Hydraulics					
0.0000	\$2,618.5185	\$0.00	0.0000	\$0.00	\$0.00	0.0000	\$0.00	\$0.00
Item ID: D205-634-041			Item Name: Replacement Skidtube with Standard Wearplates Fits LH or RH					
2.0000	\$1,572.6398	\$3,145.28	2.0000	\$3,145.28	\$0.00	2.0000	\$3,145.28	\$0.00
Item ID: D3116-5-0680			Item Name: Seal-68"					
5.0000	\$36.4108	\$182.05	5.0000	\$182.05	\$0.00	5.0000	\$182.05	\$0.00

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OTHER : ☐																									

Picklist Print

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Page 1

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0990 *600 0990* Magnabond 6398 Part A Size 112 ml		Purchased	No			110	Each	23.0000	1	1			DAS 27 9-89

Location	Loc Qty	Loc Code
CA2	11	
M135213	11	
PKG	12	
M134167	1	
M134249	11	

600.0991 *600 0991* Magnabond 6398 Part B Size 112 ml		Purchased	No			110	Each	22.0000	1	1			DAS 27 9-89
--	--	-----------	----	--	--	-----	------	---------	---	---	--	--	-------------

Location	Loc Qty	Loc Code
CA2	11	
m135213	11	
PKG	11	
m134167	1	
m134249	10	

600.1012 *600 1012* Sealant PR1425B2 (#654 sem)		Purchased	No			110	Each	12.0000	1	1			DAS 27 9-89
--	--	-----------	----	--	--	-----	------	---------	---	---	--	--	-------------

Location	Loc Qty	Loc Code
cck017	12	
m135135	4	
m135407	8	

SEP 02 2016

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Environment ☐	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong				
Design ☐	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions				
Doc/Data ☐	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance				
Equip/Tooling ☐	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect				
Handling/Pre ☐	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing				
Material ☐	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved				
Internal Transport ☐	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing				
Tribal Knowledge ☐	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish				
LOA ☐	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread				
Substation ☐	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence				
Past Expiry Date ☐	☐ Manufacturing Process	OTHER :							
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Page 2

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

646.9601

Manufactured No

110

Each

1.0000

1

1

646 9601

Upper Cutter Assembly

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

cck039

1

145324

1

9/29/2017

1

1

646.9603

Manufactured No

110

Each

2.0000

1

1

646 9603

Lower Cutter Assy Low

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK036

2

145277

2

646.9810

Manufactured No

110

Each

1.0000

1

1

646 9810

Deflector

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK041

1

140775

1

646.9910

Manufactured No

110

Each

17.0000

4

4

646 9910

Struts

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK014

17

142643

7

146573

10

DAS
28
9-89

SEP 02 2016

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Shop Packet Print

Page 2

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Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
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646.9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

647.0110

Manufactured No

110

Each

12.0000

1

1

647 0110

Roof Doubler

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK088

12

142622

12

647.0111

Manufactured No

110

Each

14.0000

1

1

647 0111

Panel

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK088

14

126233

2

142691

12

647.0112

Manufactured No

110

Each

28.0000

8

8

647 0112

Strut Bracket

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

28

142661

28

647.0113

Manufactured No

110

Each

21.0000

2

2

647 0113

Strut Doubler

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK089

21

142256

21

SEP 02 2016

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Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

647.0114

Manufactured No

110

Each

63.0000

1

1

**

PC

DAS
27
9-89

647 0114

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

63

106616

63

647.0115

Manufactured No

110

Each

58.0000

1

1

**

PC

DAS
27
9-89

647 0115

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

cc107

58

106617

58

647.0116

Manufactured No

110

Each

13.0000

2

2

**

PC

DAS
27
9-89

647 0116

Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

13

126234

13

647.0210

Manufactured No

110

Each

6.0000

1

1

**

PC

DAS
27
9-89

647 0210

Rail

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK089

6

91440

6

SEP 02 2016

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QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

647.0310

Manufactured No

110

Each

19.0000

2

2

647 0310

Channel

**

PC DAS
27
9-89

Location

Loc Qty

Loc Code

CCK090

19

122989

1

141025

2

144607

16

647.0410

Manufactured No

110

Each

4.0000

1

1

647 0410

Tube

**

PC DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

4

145498

4

647.1210

Manufactured No

110

Each

13.0000

1

1

647 1210

Screen

**

PC DAS
27
9-89

Location

Loc Qty

Loc Code

CCK107

13

138299

3

142727

10

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-10A

Purchased

No

110

Each

177.0000

8

8

AN3-10A

Bolt

PC
DAS
27
9-89

Location

Loc Qty

Loc Code

GA

2

m132763

1

m134573

1

over003

100

m134943

100

ST349

75

m134249

56

m134754

6

m135135

13

DAS
28
9-89

AN3-11A

Purchased

No

110

Each

179.0000

8

8

AN3-11A

Bolt

PC
DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m135390

100

ST349

79

m134852

79

DAS
28
9-89

AN3-3A

Purchased

No

110

Each

196.0000

1

1

AN3-3A

Bolt

PC
DAS
27
9-89

Location

Loc Qty

Loc Code

ST350

196

m134738

24

m135274

22

m135408

50

m135466

100

DAS
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

AN743-13 Purchased No

110 Each 28.0000 1 1

AN743-13

Bracket

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

28

M129732

28

CCR264SS3-04 Purchased No

110 Each 388.0000 12 12

CCR264SS3-04

Rivet

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

388

123785

388

CCR264SS-3-06 Purchased No

110 Each 57.0000 8 8

CCR264SS-3-06

Rivet

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

57

m133988

57

CCR264SS3-2 CCR264SS3-02 Purchased No

110 Each 0.0000 4 4

CCR264SS3-2

Rivet, Cherry

**

Q 135127 PC

DAS
27
9-89

CR3212-4-4 CR3212-4-04 Purchased No

110 Each 0.0000 1 1

CR3212-4-4

CHERRY RIVET

**

Q 134943 PC

DAS
27
9-89

CR3212-5-4 Purchased No

110 Each 164.0000 8 8

CR3212-5-4

Cherry Rivet

**

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

ST320

164

m133709

164

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-05

Purchased

No

110

Each

216.0000

26

26

PC

DAS
27
9-89

CR3213-4-05

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

m135464

100

CCK007

100

m135407

100

ST319

16

m135135

16

CR3213-4-1

Purchased

No

110

Each

108.0000

14

14

PC

DAS
27
9-89

CR3213-4-1

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST320

108

m133577

8

m134370

100

CR3213-4-2

Purchased

No

110

Each

179.0000

18

18

PC

DAS
27
9-89

CR3213-4-2

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

m134058

100

ST320

79

123301

79

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3

Purchased

No

110

Each

234.0000

18

18

CR3213-4-3

Rivet, Cherry

**

7x M 135056 PC

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

200

m135135

100

m135470

100

ST319

34

m131340

34

CR3213-4-4

Purchased

No

110

Each

141.0000

19

19

CR3213-4-4

Rivet, Cherry

**

19
x M 135056 PC

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK003

100

M135408

100

ST319

41

M130388

35

M134962

6

CR3213-4-6

Purchased

No

110

Each

206.0000

20

20

CR3213-4-6

Rivet

**

PC

DAS

27

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

206

M131800

206

20

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

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Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042-08 MS21042L08 Purchased No

MS21042-08

USE MS21042L08

110 Each 33.0000 54

**

53x m135 133 pc
1x m135 466 pc

DAS
27
9-89

Location Loc Qty Loc Code

ST304 25

122815 25

ST306 8

m130388 8

MS21042-3 MS21042L3 Purchased No

MS21042-3

Nut

MS21047-3

Purchased No

110 Each 153.0000 6

**

17 m135 135 pc

DAS
27
9-89

MS21047-3

Nut Plate

6 6

**

pc

DAS
27
9-89

Location Loc Qty Loc Code

ST301 153

m134955 53

m135297 100

MS21059-3 Purchased No

MS21059-3

Nut Plate

110 Each 493.0000 2

**

2 pc

DAS
27
9-89

Location Loc Qty Loc Code

CA 6

123301 6

ST301 487

123023 50

123900 437

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Monday, August 22, 2016 2:19:00 PM

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

MS21059L08

Purchased

No

110

Each

169.0000

4

4

MS21059L08

Nut

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST300

169

m134634
m134943

69
100

4

MS24694-S8

Purchased

No

110

Each

102.0000

5

5

MS24694-S8

Screw

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

102

M129909
M134654

2
100

5

MS27039-08-06

Purchased

No

110

Each

90.0000

4

4

MS27039-08-06

Screw

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

90

m126249

90

4

MS27039-08-09

Purchased

No

110

Each

20.0000

4

4

MS27039-08-09

Screw

**

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

20

m131317

20

4

SEP 02 2016

Monday, August 22, 2016 2:19:00 PM

Shop Packet Print

Page 11

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, August 22, 2016 2:19:00 PM

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-11

Purchased

No

110

Each

309.0000

43

43

MS27039-08-11

SCREW

**

PC DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST278

309

m133769

9

m134676

300

MS27039-08-12

Purchased

No

110

Each

107.0000

2

2

MS27039-08-12

Screw

**

PC DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST278

107

123352

7

124326

100

MS27039-08-13

Purchased

No

110

Each

142.0000

6

6

MS27039-08-13

Screw

**

PC DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST278

142

124326

142

MS27039-1-08

Purchased

No

110

Each

358.0000

5

5

MS27039-1-08

Screw

**

PC DAS 27 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

FP001

69

m128636

69

GA

72

125654

1

m128636

71

ST281

217

m134762

217

SEP 02 2016

Monday, August 22, 2016 2:19:00 PM

Shop Packet Print

Page 12

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, August 22, 2016 2:19:00 PM

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-11

Purchased

No

110

Each

100.0000

5

5

MS27039-1-11

Screw

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

20

125654

13

9662

7

over006

50

m134738

50

ST280

30

124326

30

5

MS35842-11

Purchased

No

110

Each

22.0000

1

1

MS35842-11

Hose Clamp

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK007

20

m134943

20

ST269

2

m134039

2

1

NAS1149F0332P

Purchased

No

110

Each

1,441.000

62

62

NAS1149F0332P

Washer

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

282

m133709

282

ST262

1159

m134257

37

m134676

19

m135058

1103

62

SEP 02 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

Picklist Print

Monday, August 22, 2016 2:19:00 PM

Work Order ID: 150037

150037

Parent Item: 646.9502

646 9502

Parent Item Name: 206A / B / L Cable Cutter System, Low

Start Date: 9/6/2016

Required Date: 9/13/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

110

Each

1,884.000

111

111

NAS1149FN832P

Washer

PC

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

1705

M133316

16

M133769

89

M135058

1600

ST263

179

M134257

179

111

NAS1835-08

Purchased

No

110

Each

36.0000

4

4

NAS1835-08

Insert

PC

DAS
27
9-89

Location

Loc Qty

Loc Code

st549

36

m129913

12

m135127

24

4

DAS
28
9-89

SEP 02 2016

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
				OTHER :							

APICAL
INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO. 03047

SHEET 1 OF 1

DWG NO. 646.9500

REV: NC

PREPARED
BY

J. JACKSON

DATE: 01/24/11

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 206 CABLE CUTTERS KIT

APPROVED BY:

ENGR *[Signature]*

MFG

[Signature]

QC *[Signature]*

EFF: NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

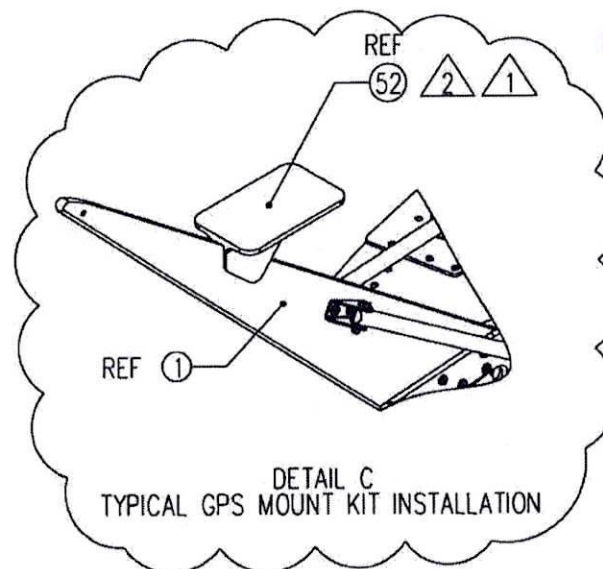
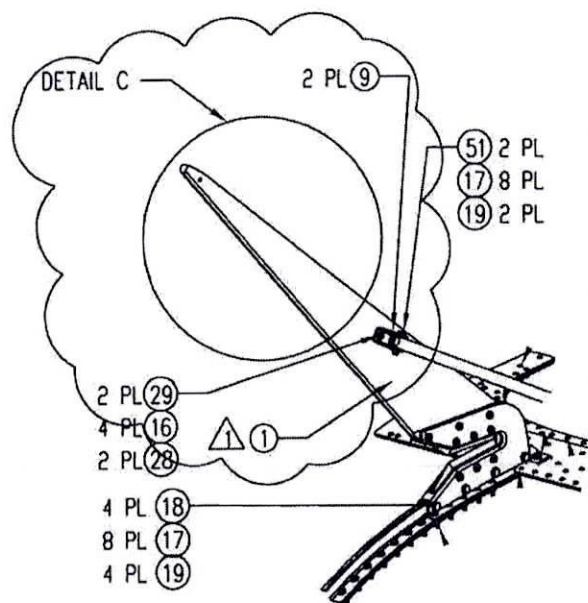
REASON: ADDED GPS MOUNT KIT, F/N 52. REVISED DRAWING VIEWS.
ADDED NOTE 2.

SHEET 1, ZONE B1 IS:

2 AT CUSTOMERS OPTION, INSTALL F/N 52 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A3 IS:

SHEET 2, ZONE B2 IS:



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 150037

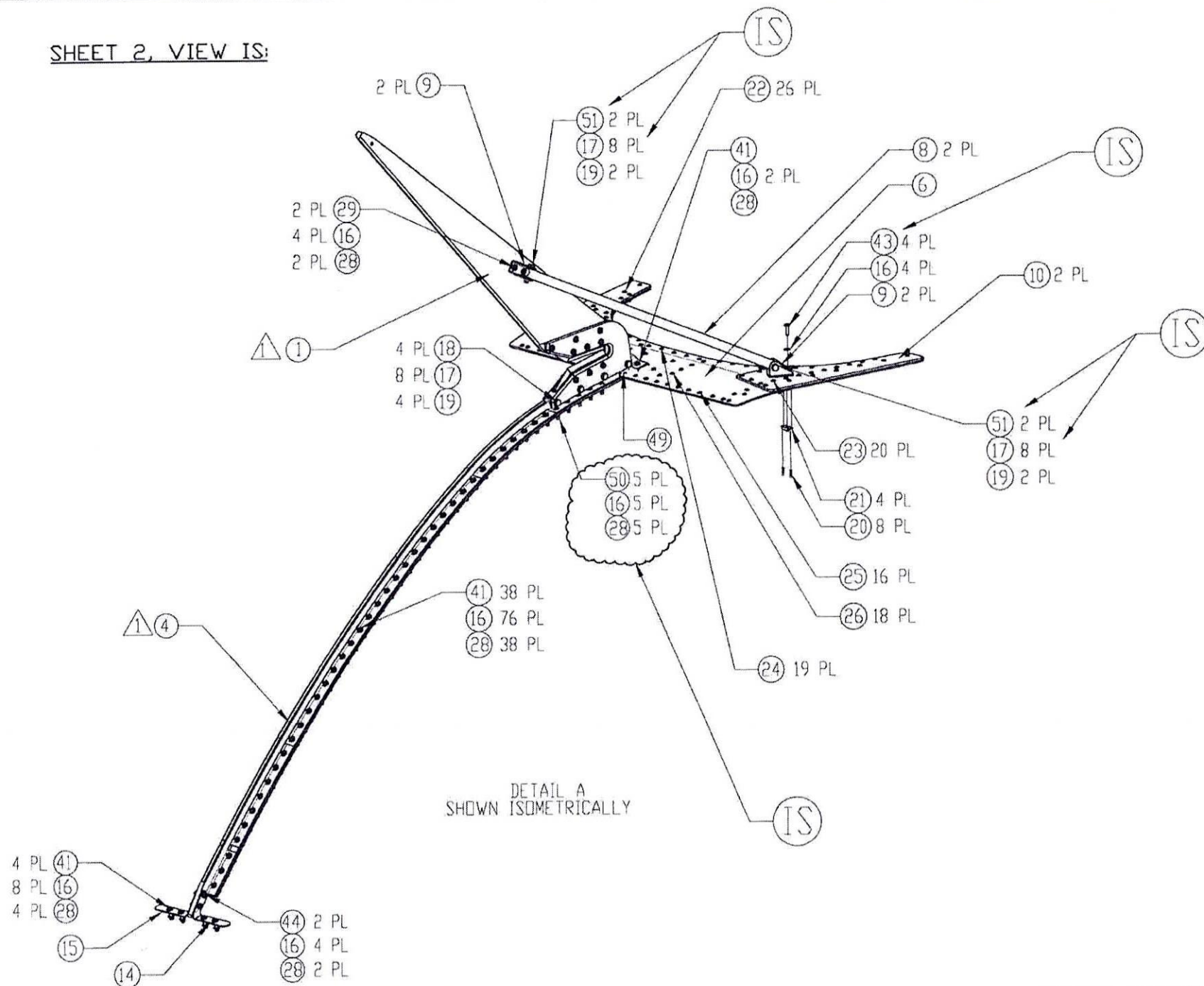
Em 10/08/22

52	A	647.5701	REF	REF	GPS MOUNT KIT	<u>2</u>	
F/N	TC	PART NUMBER	.9502	.9501	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
					☐ MDL ☐ INSTALL INSTRU ☐ ICA ☒ BOM	☐ MAJOR ☒ MINOR	☐ YES ☒ NO

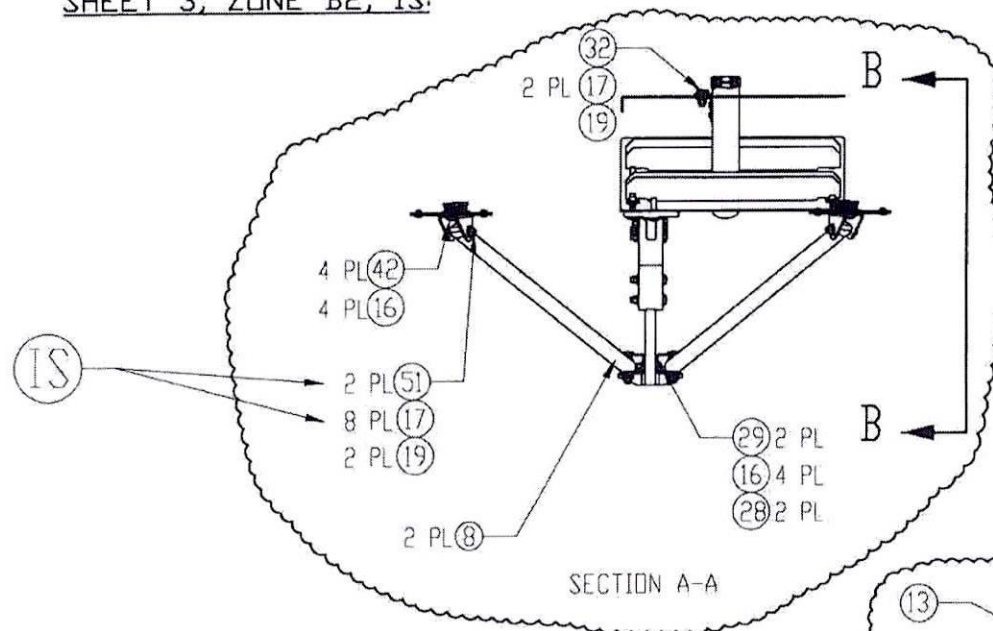
APICAL INDUSTRIES, INC.		ENGINEERING CHANGE NOTICE NO. 02736				SHEET 1 OF 1	
		DWG NO. 646.9500		REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
		DWG TITLE: 206 CABLE CUTTERS KIT					
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
		REASON: CORRECTED PARTS LIST ERRORS					
17	R	601.1607	62	62	WASHER	NAS1149F0332P	
16	R	601.2764	111	111	WASHER	NAS1149FN832P	
			9502	9501			
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION	
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO

APICAL INDUSTRIES, INC.		ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
		DWG NO. 646.9500		REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.
		DWG TITLE: 206 CABLE CUTTERS KIT					
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		APPROVED BY: ENGR <i>[Signature]</i>		MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
		REASON: HARDWARE REVISIONS FROM FIRST INSTALL					
51	A	601.3155	8	8	BOLT	AN3-10A	
50	A	601.3153	5	5	SCREW	MS24694S8	
41	R	601.2893	43	43	SCREW	MS27039-0811	
28	R	601.2973	54	54	LOCKNUT	MS21042-08	
18	R	601.2826	8	8	BOLT	AN3-11A	
16	R	601.2764	127	127	WASHER	NAS1149FN832P	
			9502	9501			
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION	
DOCUMENTS EFFECTED:						CHANGE CATEGORY ☐ MAJOR ☒ MINOR	
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						DER REVIEW REQUIRED ☐ YES ☒ NO	

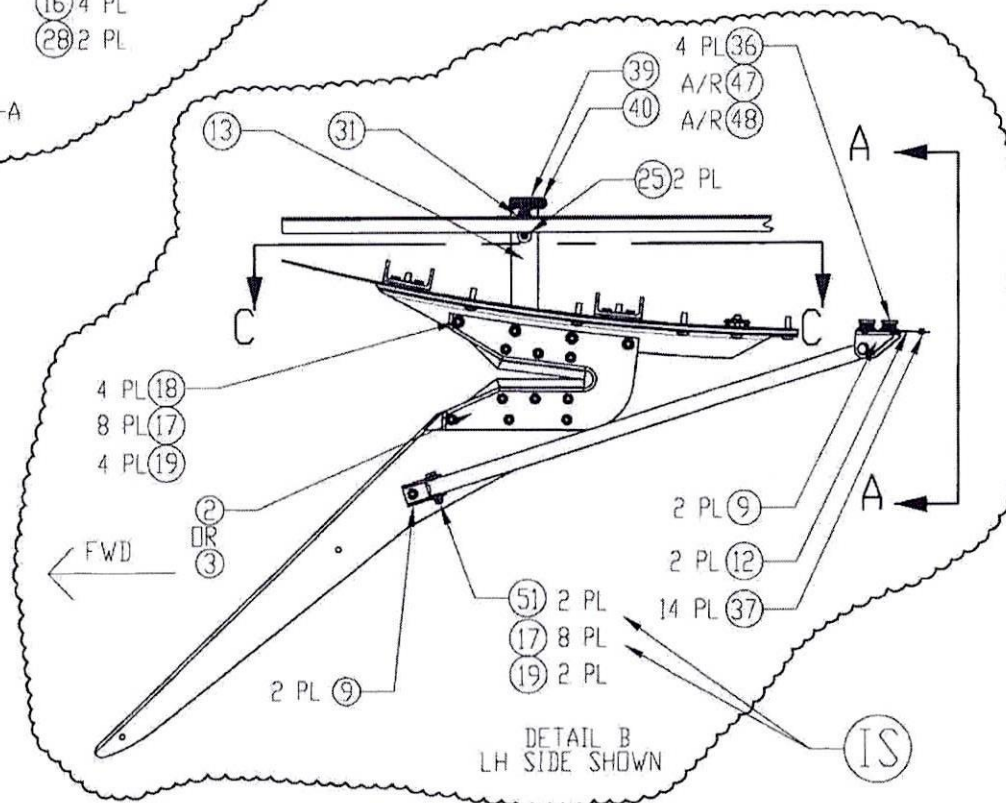
SHEET 2, VIEW IS:



SHEET 3, ZONE B2, IS:



SHEET 3, ZONE D2, IS:



THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

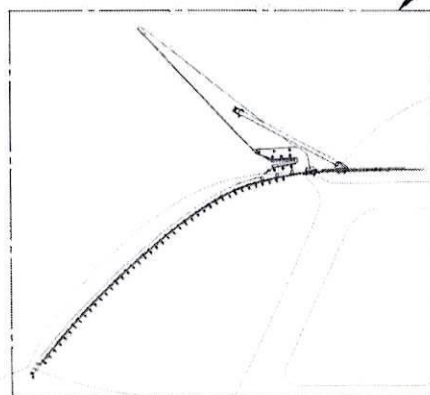
NOTES:

△ AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

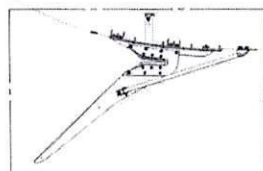
UNINCORPORATED ECN(S)

02729, 02736, 03047

DETAIL A



DETAIL B

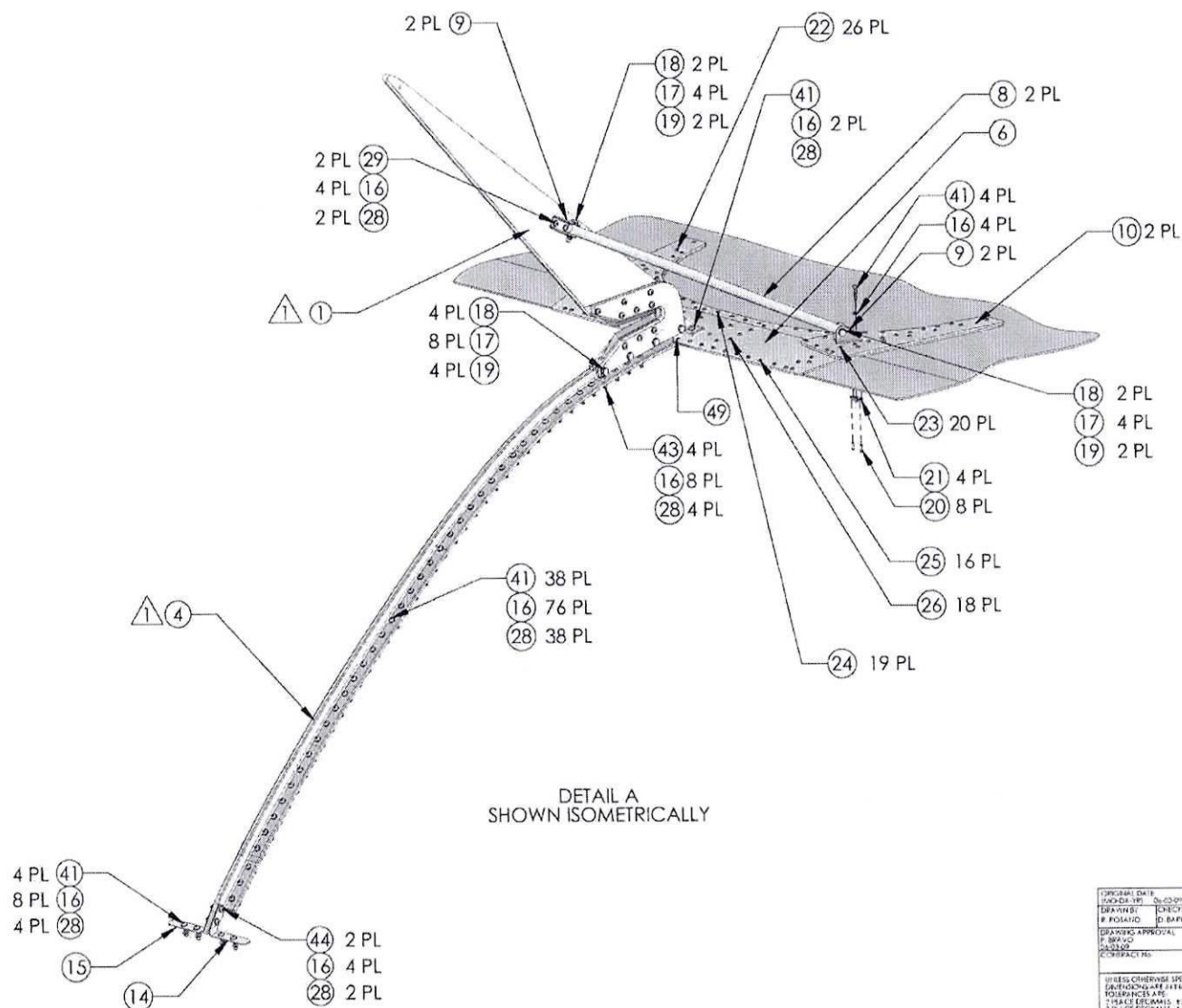


QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	1	49	601.1066 RIVET	CR3212-4-4	
1	1	48	600.0991 MAGNOBOND 639B PART B		
1	1	47	600.0990 MAGNOBOND 639B PART A		
1	1	46	600.1012 SEALANT	PP-1455 CIA-158	
5	5	45	601.1949 SCREW	MS27039-1-11	
2	2	44	601.2989 SCREW	MS27039-0812	
4	4	43	601.2987 SCREW	MS27039-0809	
4	4	42	601.3000 SCREW	MS27039-0906	

QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
47	47	41	601.2893 SCREW	MS27039-0811	
1	1	40	601.2982 HOSE CLAMP	MS25842-11	
1	1	39	647.1210 SCREEN		
5	5	38	601.1621 SCREW	MS27039-1-08	
14	14	37	601.2979 RIVET	CR3213-4-1	
4	4	36	601.2984 INSERT	MS21035-08	
4	4	35	601.2277 RIVET	CCP2455-349	
8	8	34	601.2983 RIVET	CR3212-5-4	
12	12	33	601.2980 NUTPLATE RIVET	CCP2455-349	
1	1	32	601.2822 BOLT	AN3-3A	
1	1	31	601.2985 BRACKET	AN743-13	
2	2	30	601.1900 NUTPLATE	MS21039-3	
5	5	29	601.2988 SCREW	MS27039-0813	
53	53	28	601.2973 LOCKNUT	MS21042-08	
6	6	27	600.0795 NUTPLATE	MS21047-3	
18	18	26	601.0790 RIVET	CR3213-4-3	
18	18	25	601.1039 RIVET	CR3213-4-2	
19	19	24	601.1915 RIVET	CR3213-4-4	
20	20	23	601.2991 RIVET	CR3213-4-6	
26	26	22	601.1183 RIVET	CR3213-4-5	
4	4	21	601.2356 NUTPLATE	MS21055-08	
8	8	20	601.2981 NUTPLATE RIVET	CCP2455-349	
17	17	19	601.2943 LOCKNUT	MS21042-2	
16	16	18	601.2826 BOLT	AN3-11A	
46	46	17	601.1607 WASHER	MS21046-37P	
114	114	16	601.2764 WASHER	MS21046-37P	
1	1	15	647.0115 CLIP		
1	1	14	647.0114 CLIP		
1	1	13	647.0410 TUBE		
2	2	12	647.0116 DOUBLER		
1	1	11	647.0111 PANEL		
2	2	10	647.0113 STRUT DOUBLER		
8	8	9	647.0112 STRUT BRACKET		
4	4	8	646.9910 STRUT		
2	2	7	647.0310 CHANNEL		
1	1	6	647.0110 ROOF DOUBLER		
1	1	5	647.0210 RAIL		
1	1	4	646.9810 DEFLECTOR		
1	1	3	646.9603 LOWER CUTTER ASSY LOW		
1	1	2	646.9602 LOWER CUTTER ASSY HIGH		
1	1	1	646.9601 UPPER CUTTER ASSY		
1	1	1	646.9502 206 CABLE CUTTERS KIT LOW		
1	1	1	646.9501 206 CABLE CUTTERS KIT HIGH		

QTY	1502	1501	FIND #	PART #	DESCRIPTION	MATL	SPEC.
ORIGINAL DATE: 06/03/02 DRAWN BY: F. ROYALD CHECKED BY: D. BARLEY APPROVED BY: [Signature] CONTRACT NO: [Blank]							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: .0015" DECIMALS .0015" ANGLES							
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300							
206 CABLE CUTTERS KIT							
SCALE: NONE SHEET 1 OF 3							

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DETAIL A
SHOWN ISOMETRICALLY

(1) REVISIONS (2) CHANGES (3) CORRECTIONS (4) MODIFICATIONS (5) REDESIGNS (6) REWORKS (7) REPAIRS (8) REPLACEMENTS (9) REPAIRS (10) REPAIRS (11) REPAIRS (12) REPAIRS (13) REPAIRS (14) REPAIRS (15) REPAIRS (16) REPAIRS (17) REPAIRS (18) REPAIRS (19) REPAIRS (20) REPAIRS (21) REPAIRS (22) REPAIRS (23) REPAIRS (24) REPAIRS (25) REPAIRS (26) REPAIRS (27) REPAIRS (28) REPAIRS (29) REPAIRS (30) REPAIRS (31) REPAIRS (32) REPAIRS (33) REPAIRS (34) REPAIRS (35) REPAIRS (36) REPAIRS (37) REPAIRS (38) REPAIRS (39) REPAIRS (40) REPAIRS (41) REPAIRS (42) REPAIRS (43) REPAIRS (44) REPAIRS (45) REPAIRS (46) REPAIRS (47) REPAIRS (48) REPAIRS (49) REPAIRS (50) REPAIRS (51) REPAIRS (52) REPAIRS (53) REPAIRS (54) REPAIRS (55) REPAIRS (56) REPAIRS (57) REPAIRS (58) REPAIRS (59) REPAIRS (60) REPAIRS (61) REPAIRS (62) REPAIRS (63) REPAIRS (64) REPAIRS (65) REPAIRS (66) REPAIRS (67) REPAIRS (68) REPAIRS (69) REPAIRS (70) REPAIRS (71) REPAIRS (72) REPAIRS (73) REPAIRS (74) REPAIRS (75) REPAIRS (76) REPAIRS (77) REPAIRS (78) REPAIRS (79) REPAIRS (80) REPAIRS (81) REPAIRS (82) REPAIRS (83) REPAIRS (84) REPAIRS (85) REPAIRS (86) REPAIRS (87) REPAIRS (88) REPAIRS (89) REPAIRS (90) REPAIRS (91) REPAIRS (92) REPAIRS (93) REPAIRS (94) REPAIRS (95) REPAIRS (96) REPAIRS (97) REPAIRS (98) REPAIRS (99) REPAIRS (100) REPAIRS	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300 206 CABLE CUTTERS KIT SEE C.A. 07M26 SCALE NONE SHEET 2 OF 3
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REFERENCE ONLY

DAS
28
9-89

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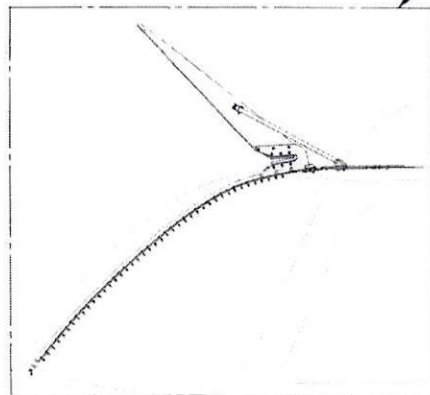
UNINCORPORATED ECN(S)

02729, 02736, 03047

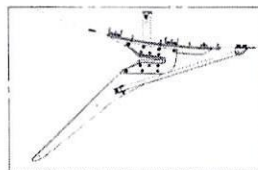
NOTES:

1 AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

DETAIL A



DETAIL B



QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	1	49	601.1066 RIVET	CR3213-4-4	
1	1	48	600.0991 MAGNOBOND 6398 PART B		
1	1	47	600.0990 MAGNOBOND 6398 PART A		
1	1	46	600.1012 SEALANT	PP-1426 CLASS B	
5	5	45	601.1949 SCREW	MS27039-1-11	
2	2	44	601.2989 SCREW	MS27039-0812	
4	4	43	601.2987 SCREW	MS27039-0809	
4	4	42	601.3000 SCREW	MS27039-0906	

QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
47	47	41	601.2893 SCREW	MS27039-0811	
1	1	40	601.2982 HOSE CLAMP	MS35042-11	
1	1	39	647.1210 SCREEN		
5	5	38	601.1621 SCREW	MS27039-1-08	
14	14	37	601.2979 RIVET	CR3213-4-1	
4	4	36	601.2984 INSERT	HA51035-08	
4	4	35	601.2277 RIVET	CCP26455-001	
8	8	34	601.2983 RIVET	CR3212-5-4	
12	12	33	601.2980 NUTPLATE RIVET	CCP26455-004	
1	1	32	601.2822 BOLT	AN3-3A	
1	1	31	601.2985 BRACKET	ASH783-13	
2	2	30	601.1900 NUTPLATE	MS21039-3	
6	6	29	601.2988 SCREW	MS27039-0313	
53	53	28	601.2973 LOCKNUT	MS21042-08	
6	6	27	600.0795 NUTPLATE	MS21047-3	
18	18	26	601.0790 RIVET	CR3213-4-3	
18	18	25	601.1039 RIVET	CR3213-4-2	
19	19	24	601.1915 RIVET	CR3213-4-4	
20	20	23	601.2991 RIVET	CR3213-4-6	
26	26	22	601.1183 RIVET	CR3213-4-5	
4	4	21	601.2356 NUTPLATE	MS21059L08	
8	8	20	601.2981 NUTPLATE RIVET	CCP26455-009	
17	17	19	601.2943 LOCKNUT	MS21042-3	
16	16	18	601.2826 BOLT	AN3-11A	
46	46	17	601.1607 WASHER	HA511496030P	
114	114	16	601.2764 WASHER	HA511496030P	
1	1	15	647.0115 CLIP		
1	1	14	647.0114 CLIP		
1	1	13	647.0410 TUBE		
2	2	12	647.0116 DOUBLER		
1	1	11	647.0111 PANEL		
2	2	10	647.0113 STRUT DOUBLER		
8	8	9	647.0112 STRUT BRACKET		
4	4	8	646.9910 STRUT		
2	2	7	647.0310 CHANNEL		
1	1	6	647.0110 ROOF DOUBLER		
1	1	5	647.0210 RAIL		
1	1	4	646.9810 DEFLECTOR		
1	1	3	646.9603 LOWER CUTTER ASSY LOW		
1	1	2	646.9602 LOWER CUTTER ASSY HIGH		
1	1	1	646.9601 UPPER CUTTER ASSY		
1	1	1	646.9502 206 CABLE CUTTERS KIT LOW		
1	1	1	646.9501 206 CABLE CUTTERS KIT HIGH		

QTY		PARTS LIST	
NEXT ASSY (S)		APICAL INDUSTRIES	
ORIGINAL DATE		2608 TEMPLE HEIGHTS DR.	
DRAWN BY		OCEANSIDE, CA. 92056-3512 (760)724-5300	
P. ROYAL		206 CABLE CUTTERS KIT	
CHECKED BY		806 646.9500	
DESIGNED BY		SCALE NONE	
APPROVAL		SHEET 1 OF 3	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED			
DIMENSIONS ARE IN INCHES			
FRACTIONS SHALL BE 1/16			
DECIMALS SHALL BE TO 3 PLACES			

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON: HARDWARE REVISIONS FROM FIRST INSTALL					

REFERENCE ONLY

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO